

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092319\
 Data File : VX012601.D
 Acq On : 23 Sep 2019 13:37
 Operator : JC/SP
 Sample : VX0923WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0923WBL01

Quant Time: Sep 24 01:49:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	182798	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	312461	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	263461	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100891	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	130943	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
35) Dibromofluoromethane	5.48	113	95805	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
50) Toluene-d8	8.71	98	363950	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
62) 4-Bromofluorobenzene	11.13	95	128887	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

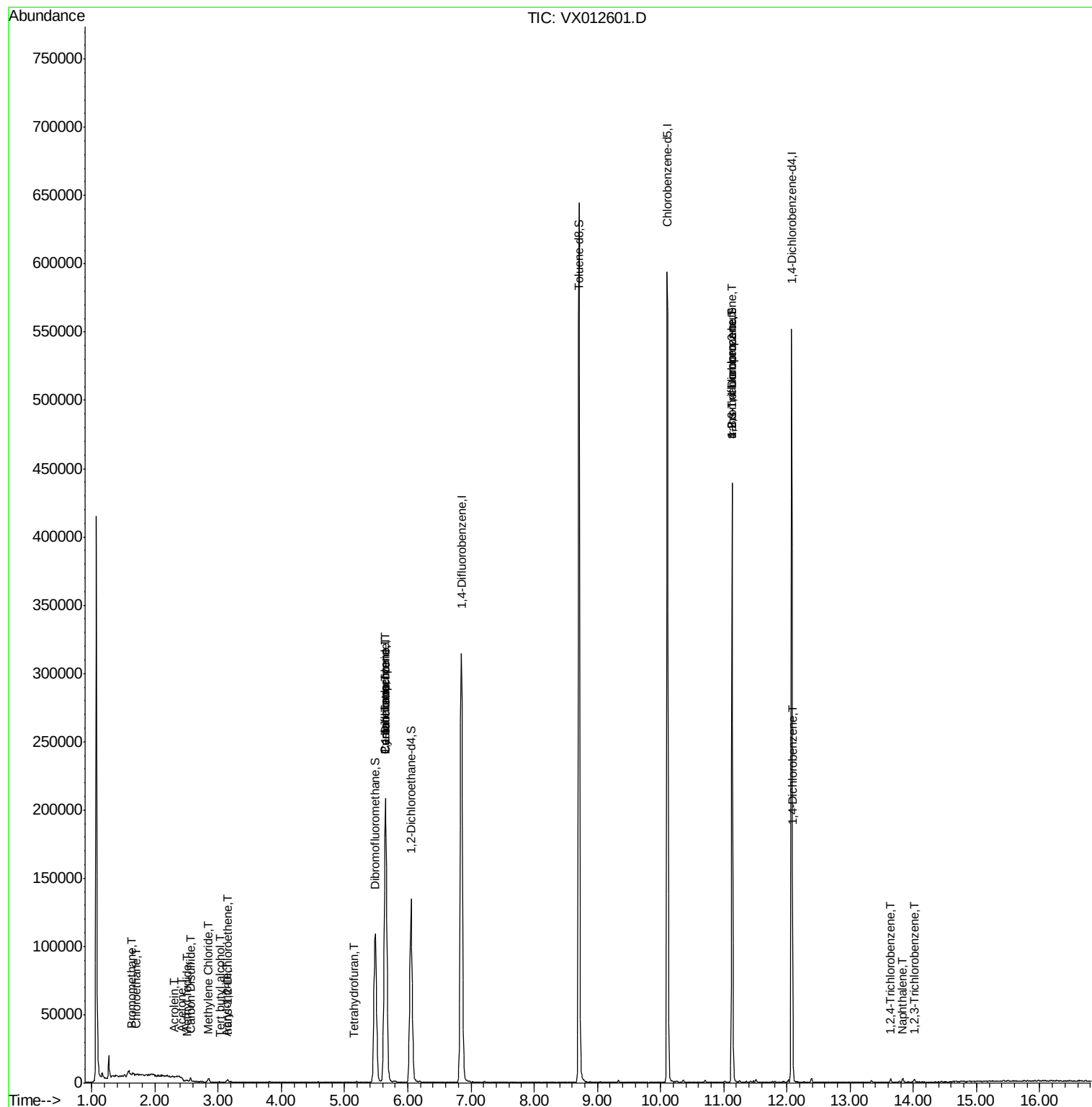
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	670	0.726	ug/l	88
6) Chloroethane	1.71	64	318	0.201	ug/l #	85
10) Methyl Iodide	2.50	142	543	5.184	ug/l	96
11) Tert butyl alcohol	3.03	59	169	0.254	ug/l #	72
13) Acrolein	2.29	56	595	11.773	ug/l #	48
15) Acrylonitrile	3.12	53	548	0.406	ug/l #	89
16) Acetone	2.42	43	444	0.315	ug/l #	87
17) Carbon Disulfide	2.56	76	3544	0.643	ug/l	98
20) Methylene Chloride	2.84	84	1254	0.526	ug/l #	78
21) trans-1,2-Dichloroethene	3.15	96	492	0.226	ug/l #	90
29) Tetrahydrofuran	5.14	42	389	0.316	ug/l #	34
31) Cyclohexane	5.64	56	4669	1.260	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	16376	5.437	ug/l #	52
38) Carbon Tetrachloride	5.64	117	20513	6.705	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	66575	24.946	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	66575	71.488	ug/l #	8
88) 1,4-Dichlorobenzene	12.09	146	930	0.275	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.64	180	659	0.322	ug/l	95
95) Naphthalene	13.84	128	2155	0.291	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	599	0.293	ug/l	99

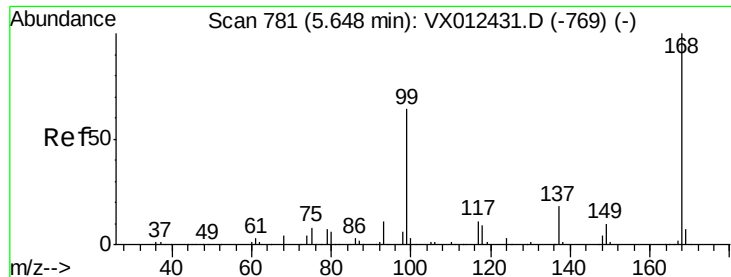
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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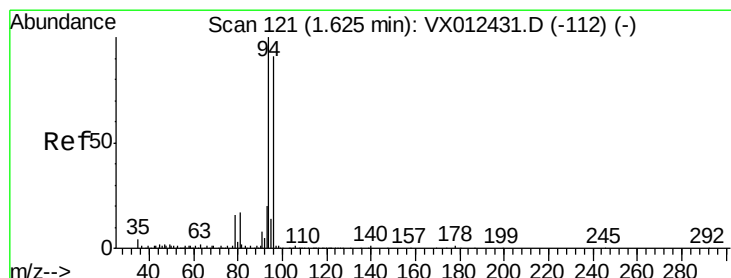
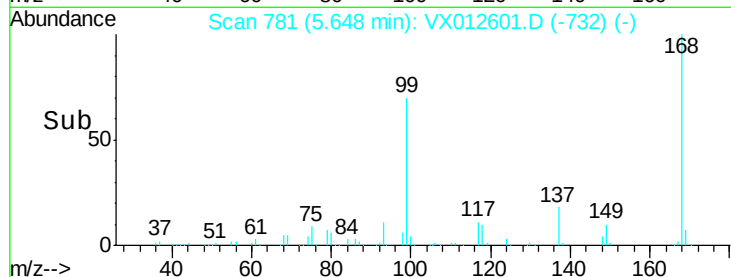
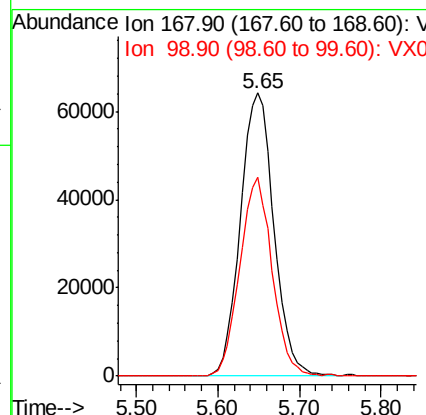
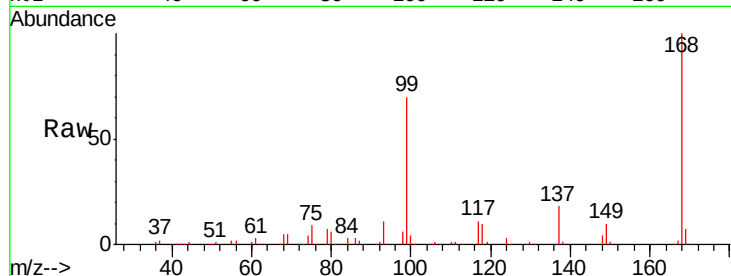




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.00 min
Lab File: VX012601.D
Acq: 23 Sep 2019 13:37

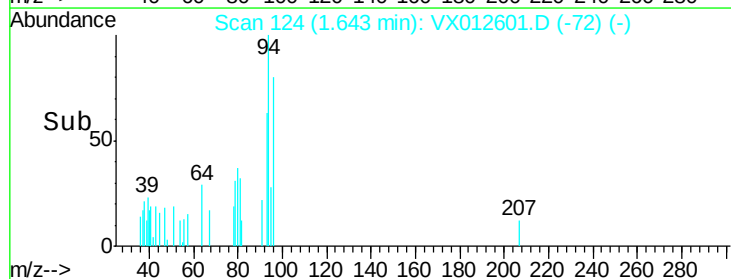
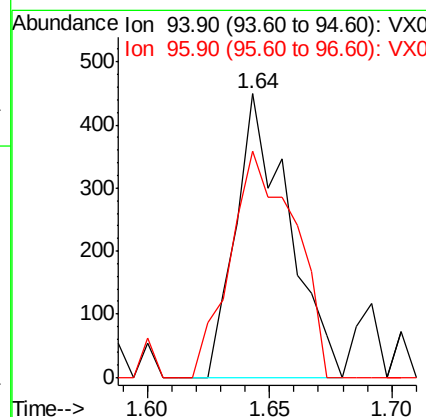
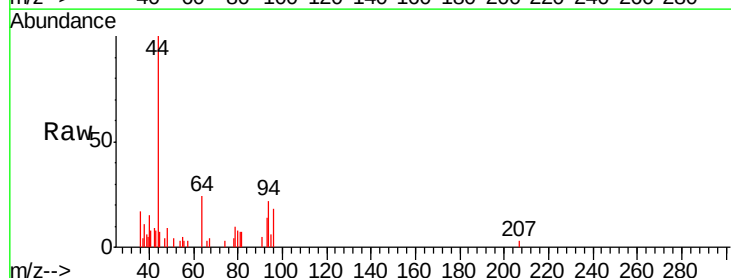
Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

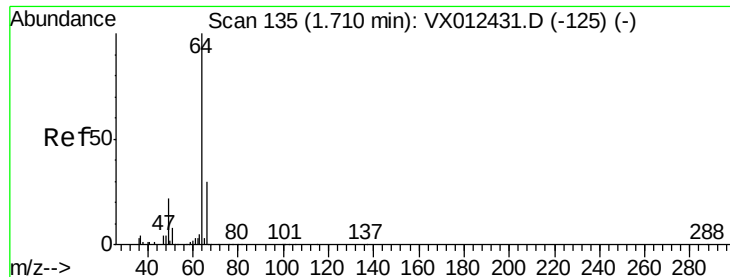
Tgt Ion: 168 Resp: 182798
Ion Ratio Lower Upper
168 100
99 70.2 51.4 77.2



#5
Bromomethane
Concen: 0.726 ug/l
RT: 1.64 min Scan# 124
Delta R.T. 0.02 min
Lab File: VX012601.D
Acq: 23 Sep 2019 13:37

Tgt Ion: 94 Resp: 670
Ion Ratio Lower Upper
94 100
96 80.0 72.8 109.2





#6

Chloroethane

Concen: 0.201 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

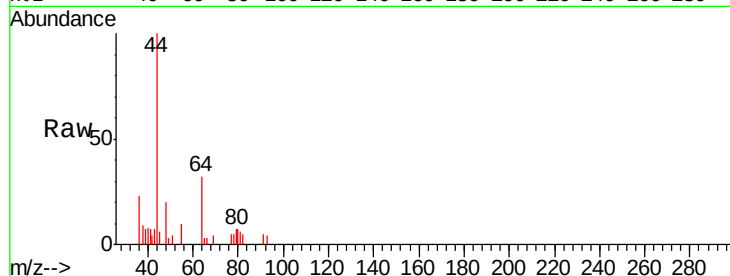
VX0923WBL01

Tgt Ion: 64 Resp: 318

Ion Ratio Lower Upper

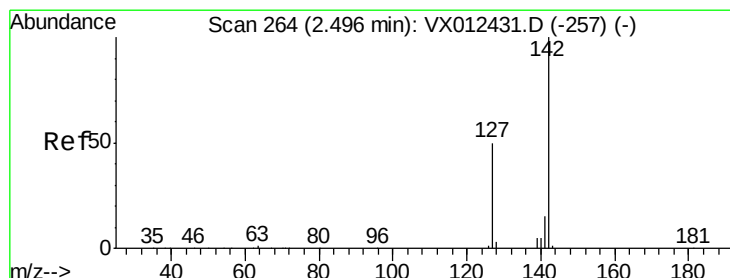
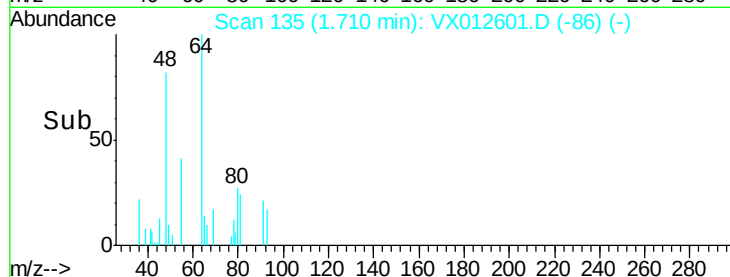
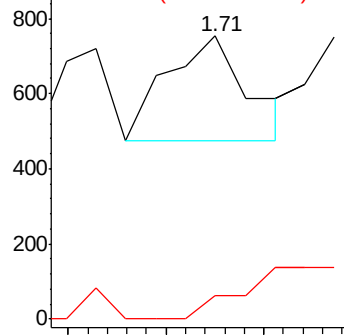
64 100

66 21.9 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.184 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

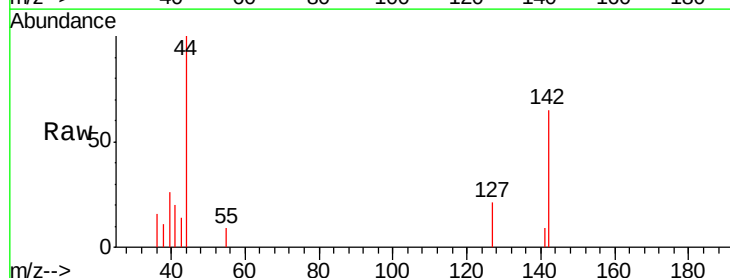
Tgt Ion: 142 Resp: 543

Ion Ratio Lower Upper

142 100

127 54.0 40.8 61.2

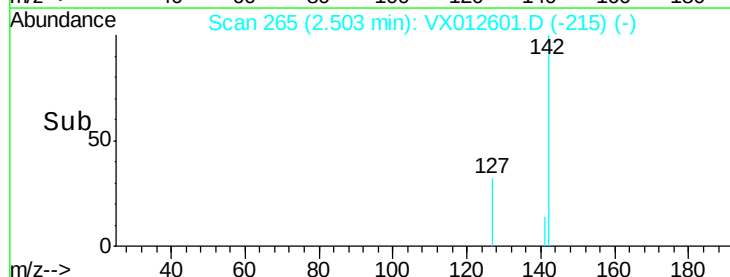
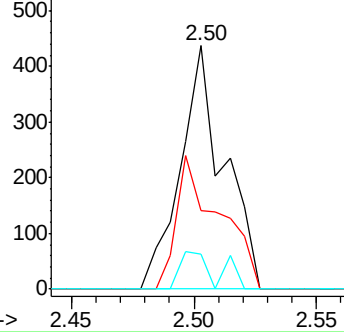
141 12.9 12.1 18.1

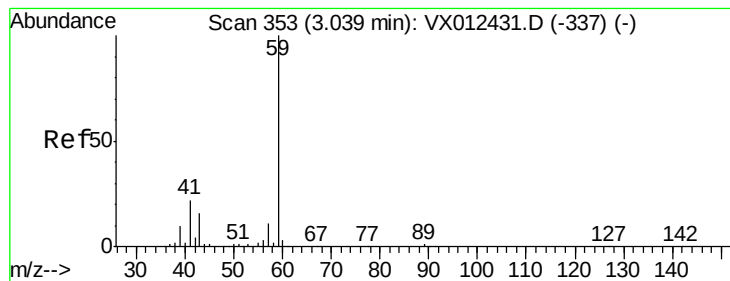


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



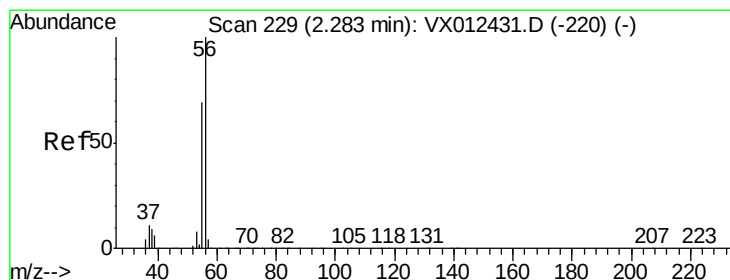
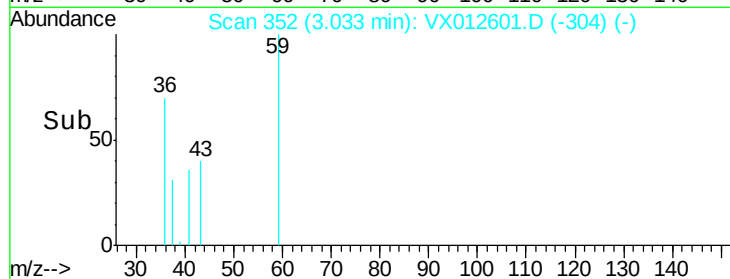
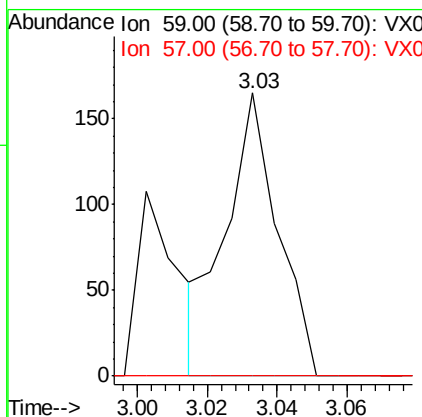
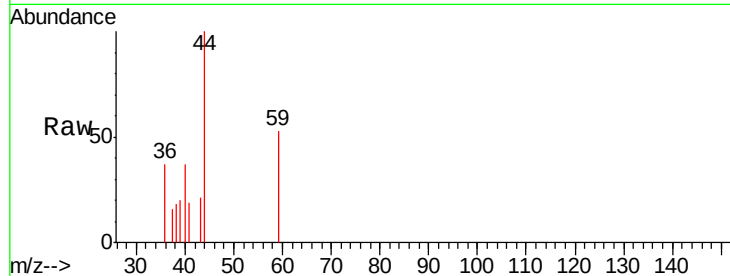


#11

Tert butyl alcohol
 Concen: 0.254 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0923WBL01

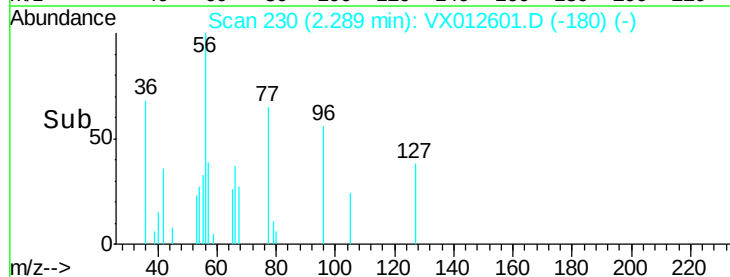
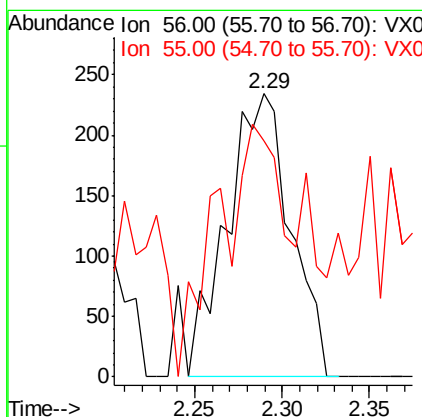
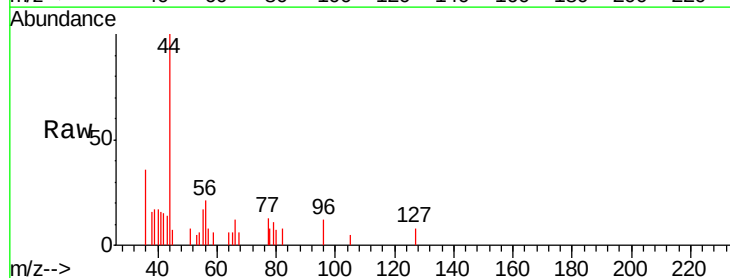
Tgt Ion: 59 Resp: 169
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

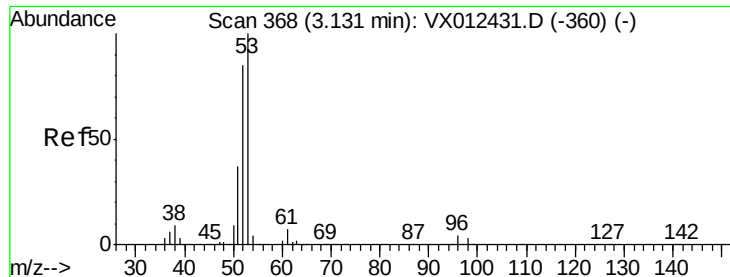


#13

Acrolein
 Concen: 11.773 ug/l
 RT: 2.29 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

Tgt Ion: 56 Resp: 595
 Ion Ratio Lower Upper
 56 100
 55 26.9 55.8 83.8#





#15

Acrylonitrile

Concen: 0.406 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

VX0923WBL01

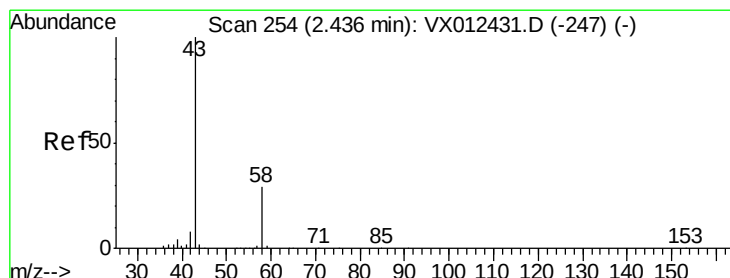
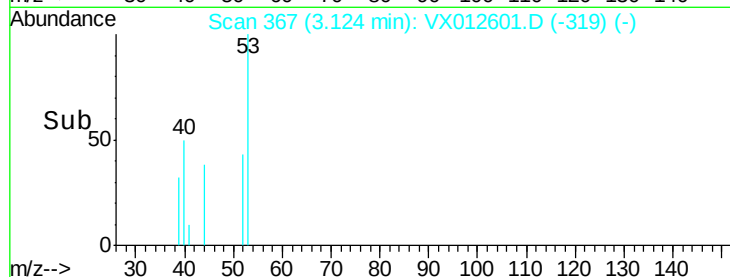
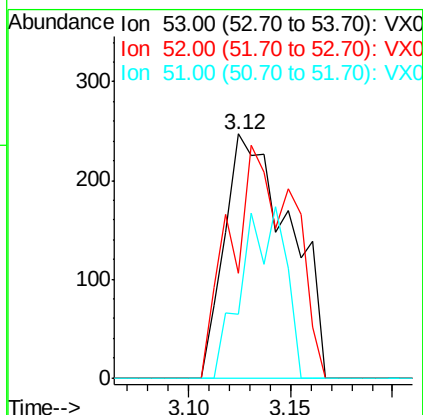
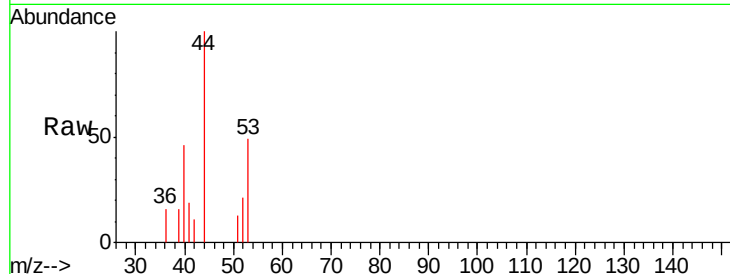
Tgt Ion: 53 Resp: 548

Ion Ratio Lower Upper

53 100

52 91.2 67.0 100.4

51 46.5 29.6 44.4#



#16

Acetone

Concen: 0.315 ug/l

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX012601.D

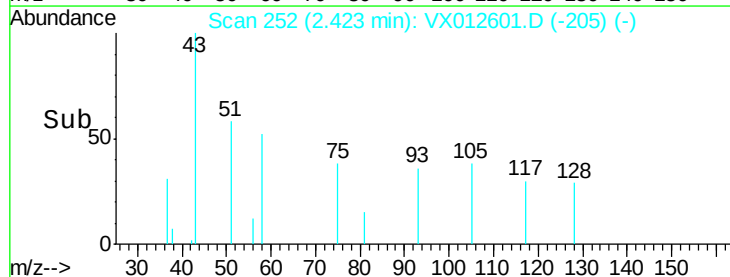
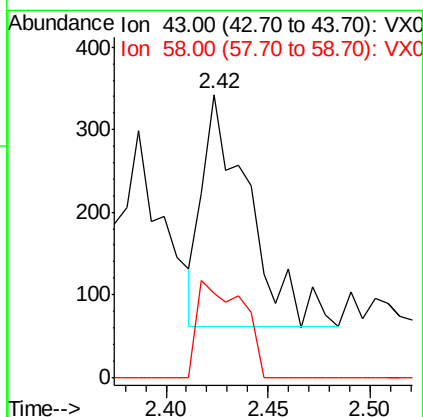
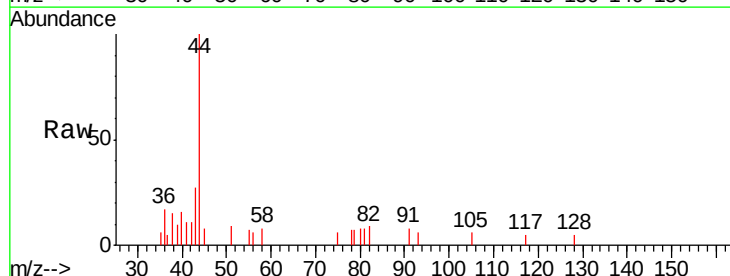
Acq: 23 Sep 2019 13:37

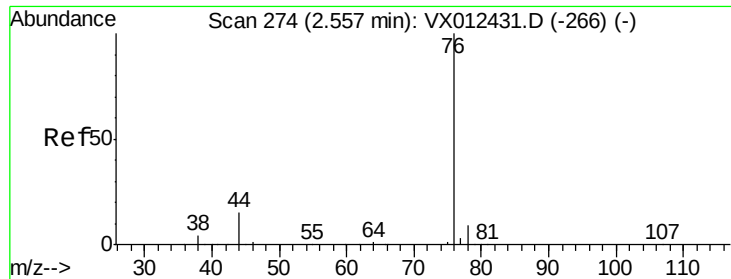
Tgt Ion: 43 Resp: 444

Ion Ratio Lower Upper

43 100

58 36.3 23.3 34.9#





#17

Carbon Disulfide

Concen: 0.643 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

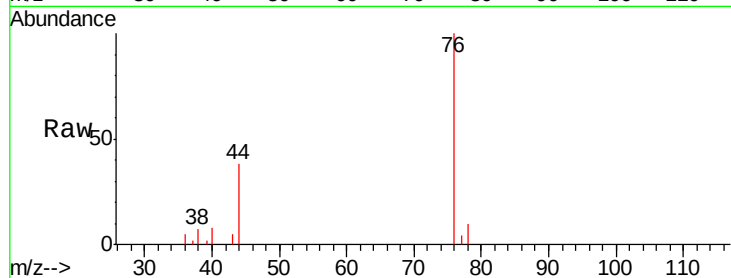
VX0923WBL01

Tgt Ion: 76 Resp: 3544

Ion Ratio Lower Upper

76 100

78 9.9 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

2500

2000

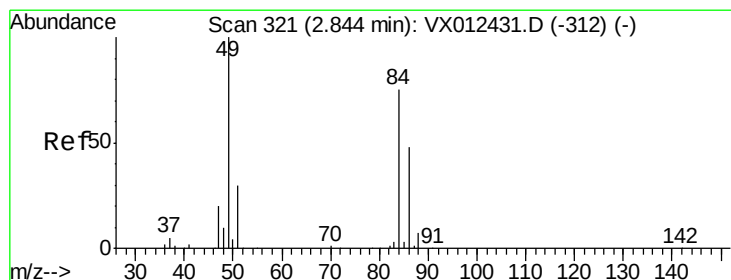
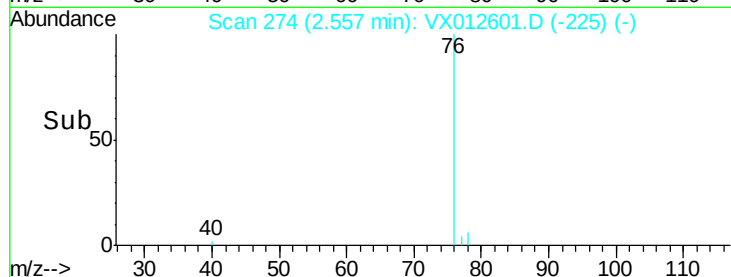
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 0.526 ug/l

RT: 2.84 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Tgt Ion: 84 Resp: 1254

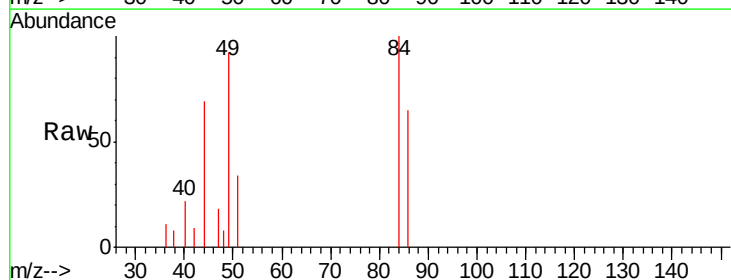
Ion Ratio Lower Upper

84 100

49 91.7 106.8 160.2#

51 33.7 32.3 48.5

86 64.7 51.3 76.9



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

1200

1000

800

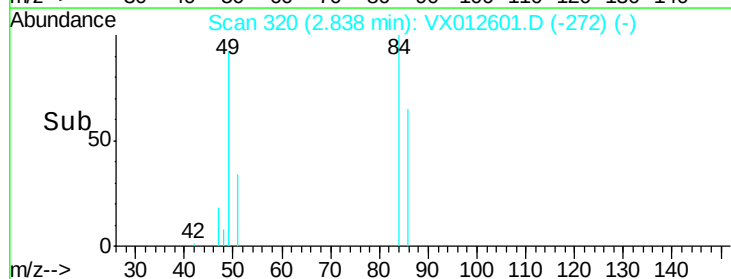
600

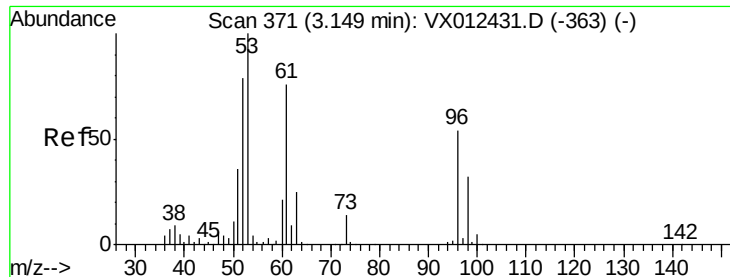
400

200

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.226 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

VX0923WBL01

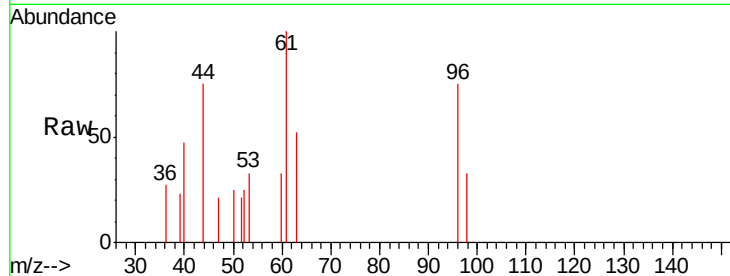
Tgt Ion: 96 Resp: 492

Ion Ratio Lower Upper

96 100

61 133.7 112.0 168.0

98 43.6 47.8 71.8#

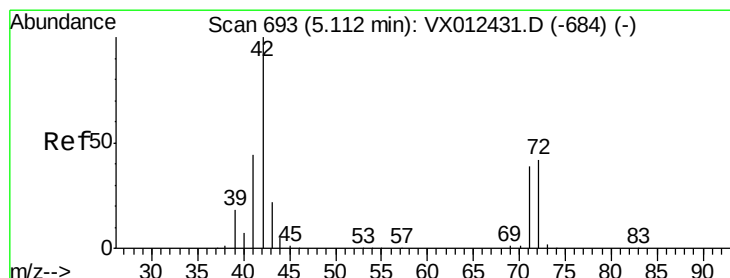
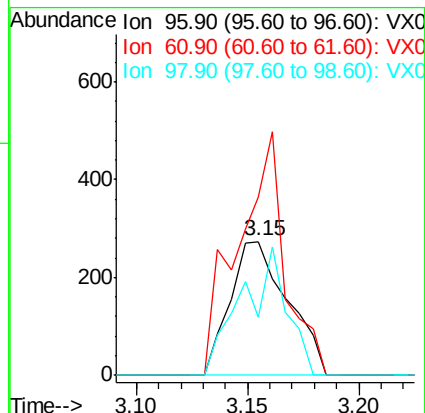
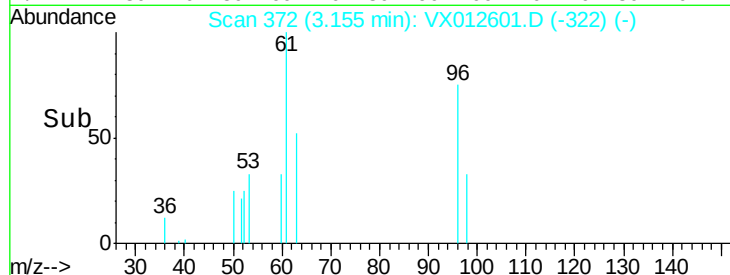


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Time--> 3.10 3.15 3.20



#29

Tetrahydrofuran

Concen: 0.316 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.03 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

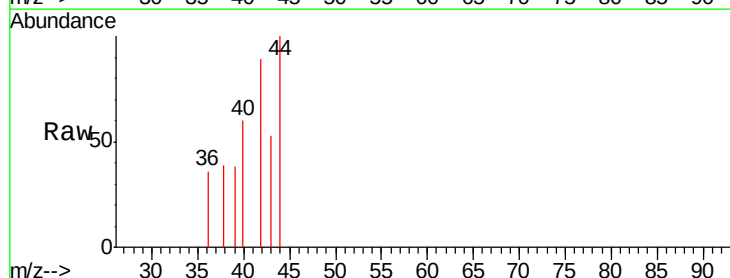
Tgt Ion: 42 Resp: 389

Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

71 0.0 31.5 47.3#

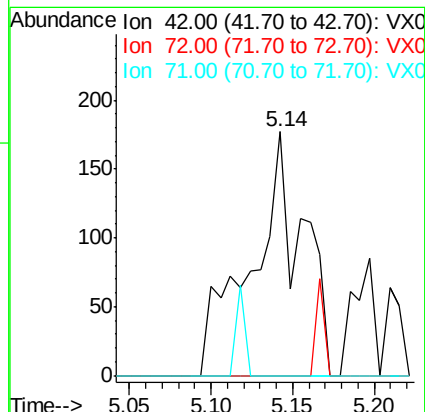
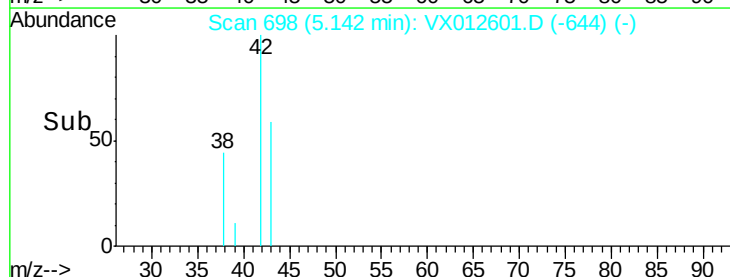


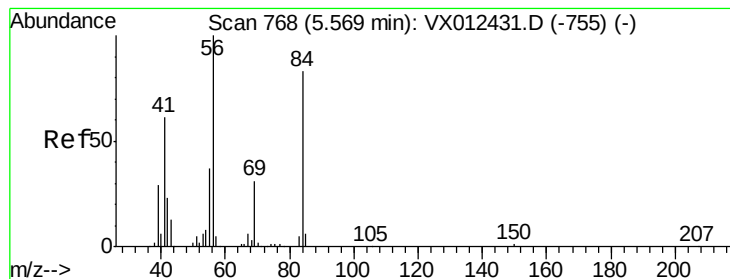
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

Time--> 5.05 5.10 5.15 5.20





#31

Cyclohexane

Concen: 1.260 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

VX0923WBL01

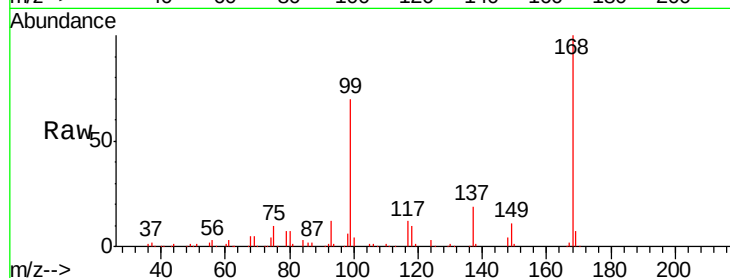
Tgt Ion: 56 Resp: 4669

Ion Ratio Lower Upper

56 100

69 193.3 25.0 37.6#

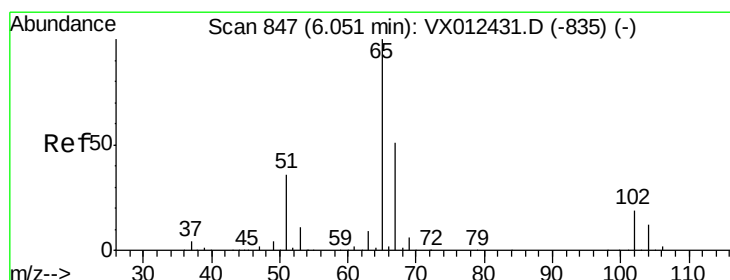
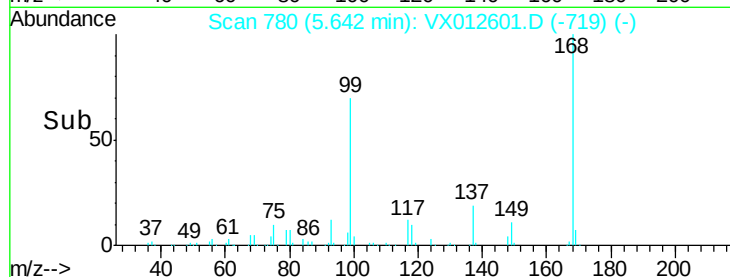
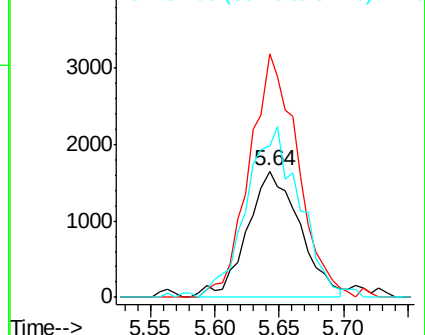
84 116.9 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.192 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012601.D

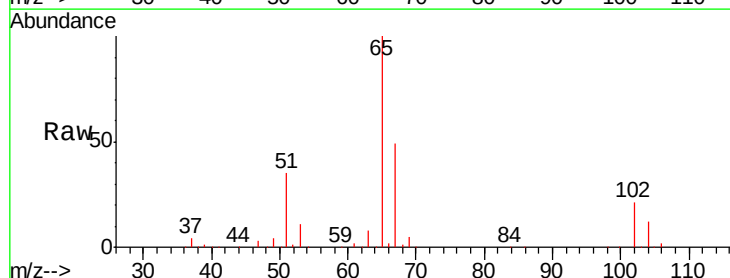
Acq: 23 Sep 2019 13:37

Tgt Ion: 65 Resp: 130943

Ion Ratio Lower Upper

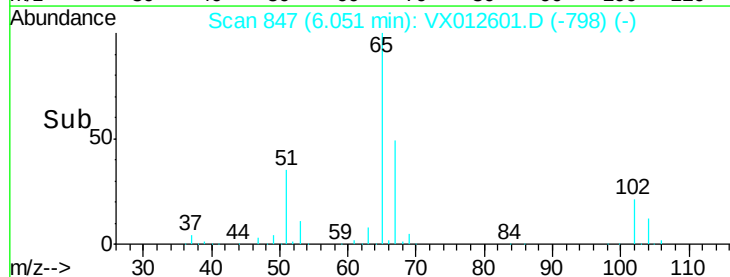
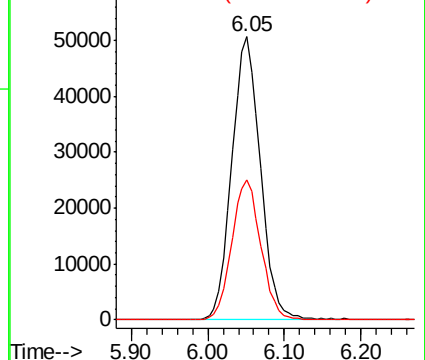
65 100

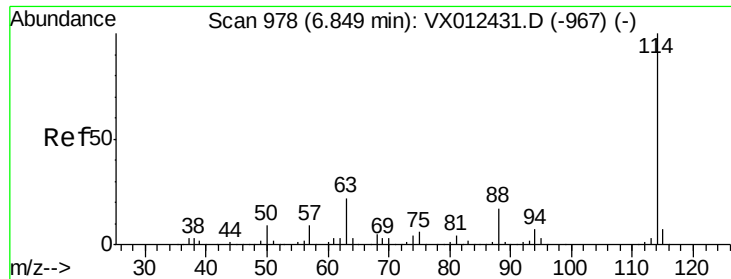
67 50.1 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

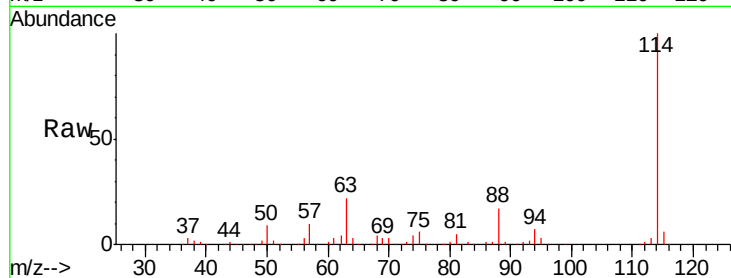




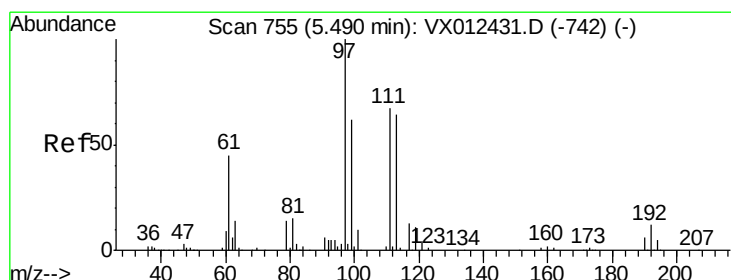
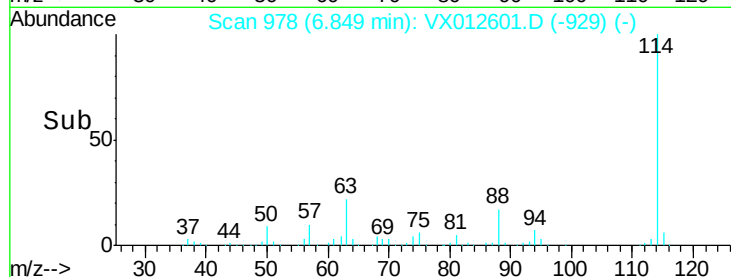
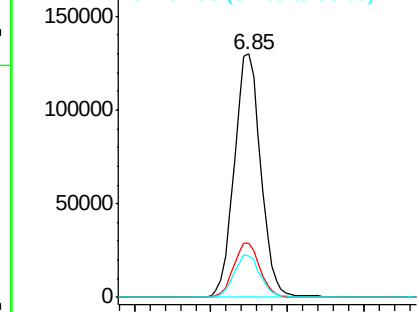
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0923WBL01

Tgt Ion:114 Resp: 312461
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.2
 88 17.0 0.0 33.2

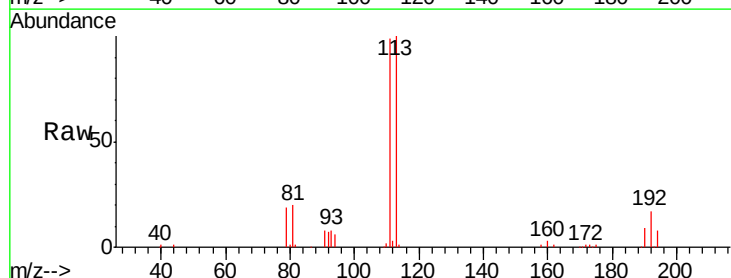


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

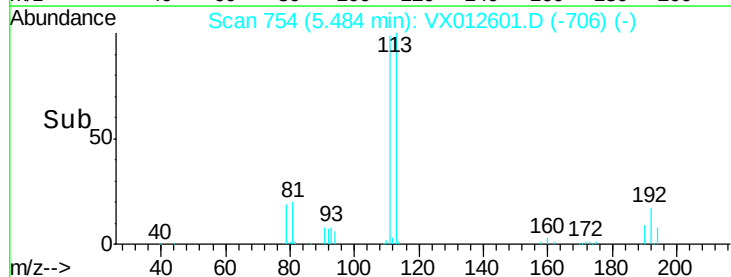
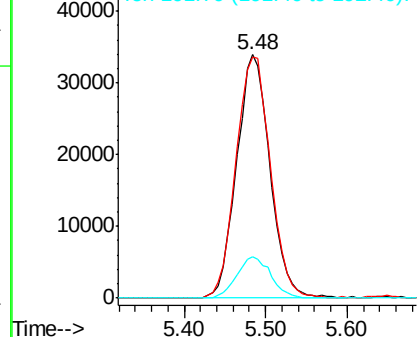


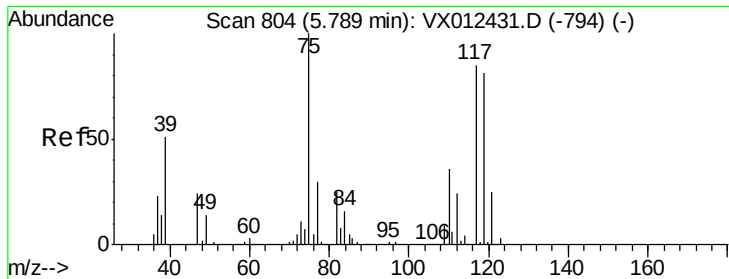
#35
 Dibromofluoromethane
 Concen: 51.485 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

Tgt Ion:113 Resp: 95805
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.4 125.2
 192 17.3 14.4 21.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

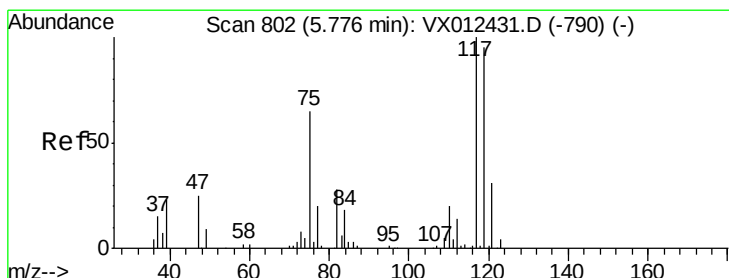
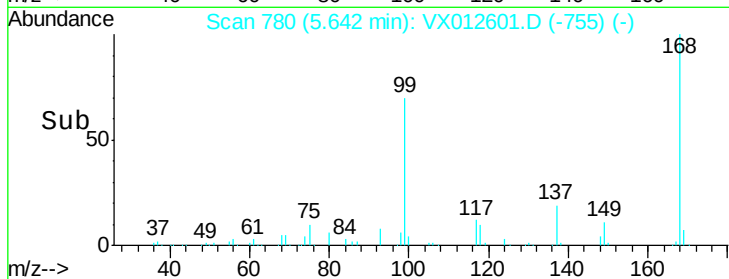
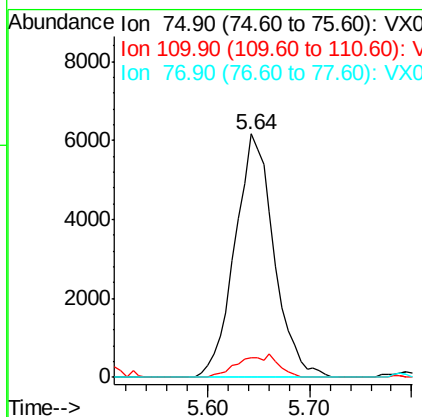
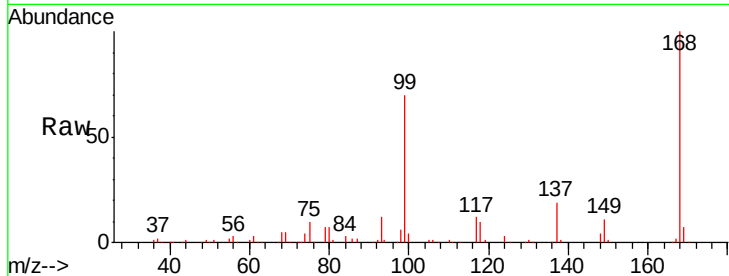




#36
 1,1-Dichloropropene
 Concen: 5.437 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

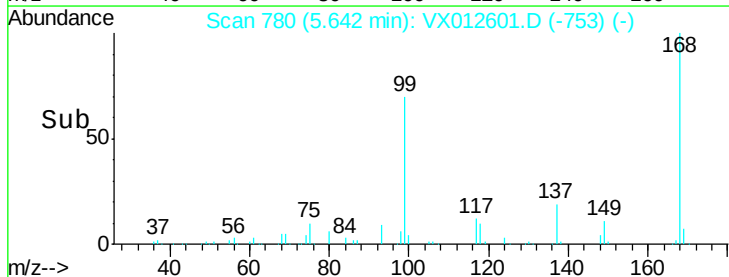
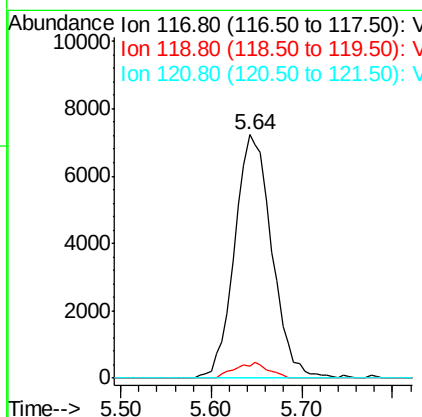
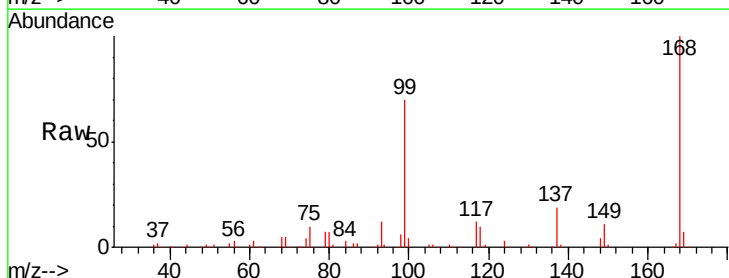
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0923WBL01

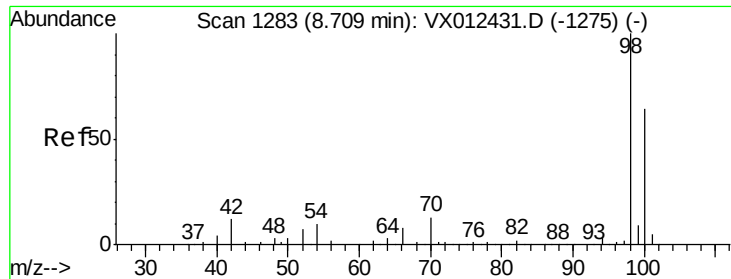
Tgt Ion: 75 Resp: 16376
 Ion Ratio Lower Upper
 75 100
 110 9.8 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.705 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.13 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

Tgt Ion: 117 Resp: 20513
 Ion Ratio Lower Upper
 117 100
 119 5.1 75.7 113.5#
 121 0.0 24.2 36.4#

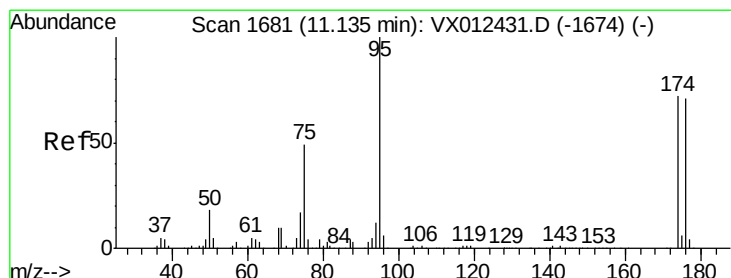
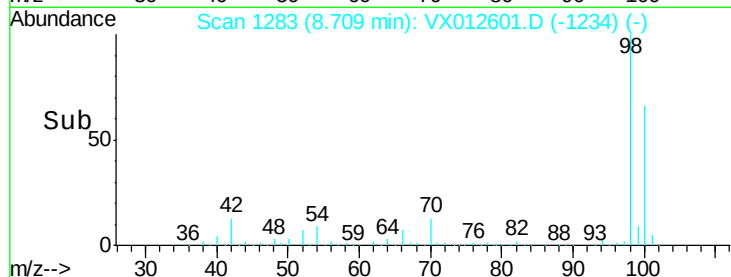
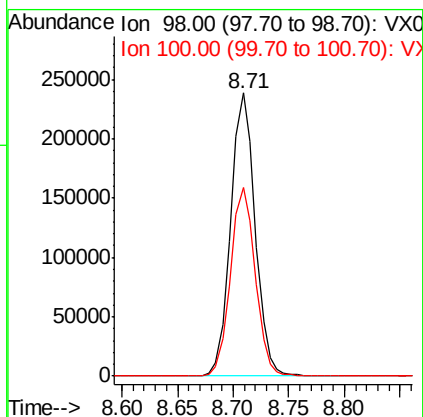
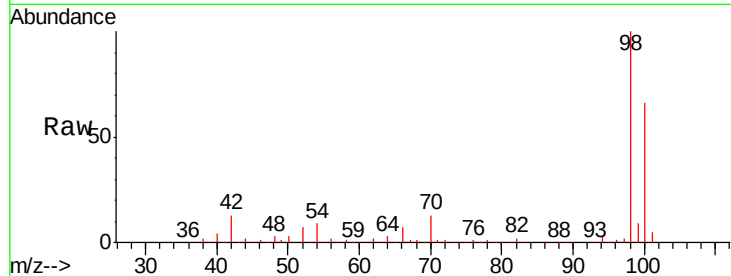




#50
Toluene-d8
Concen: 50.787 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012601.D
Acq: 23 Sep 2019 13:37

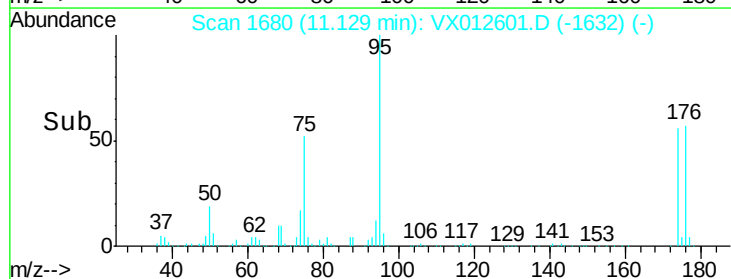
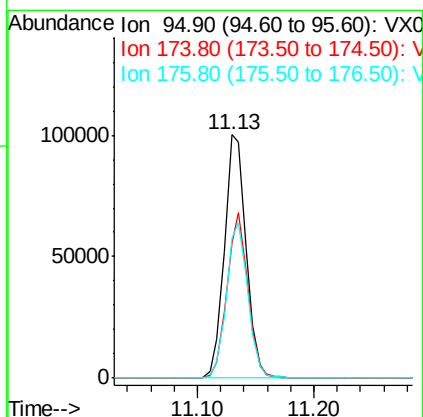
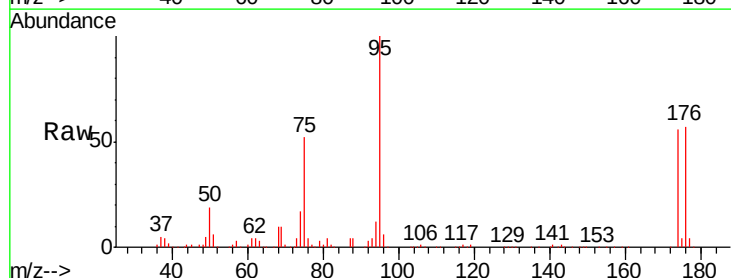
Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

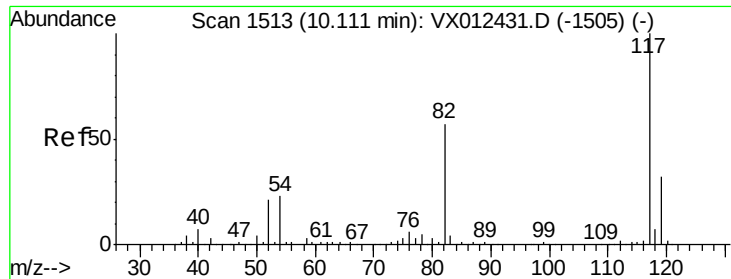
Tgt Ion: 98 Resp: 363950
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 45.741 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX012601.D
Acq: 23 Sep 2019 13:37

Tgt Ion: 95 Resp: 128887
Ion Ratio Lower Upper
95 100
174 65.7 0.0 140.0
176 63.1 0.0 135.4

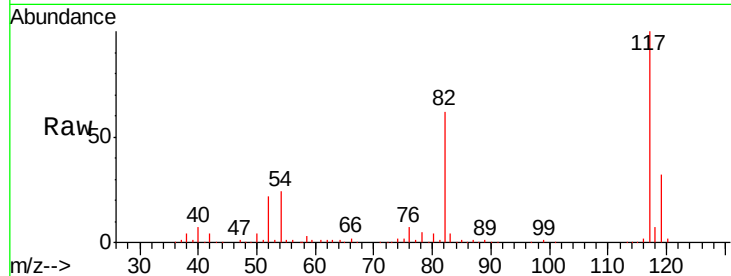




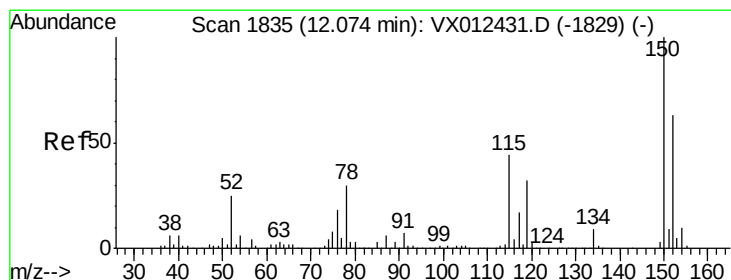
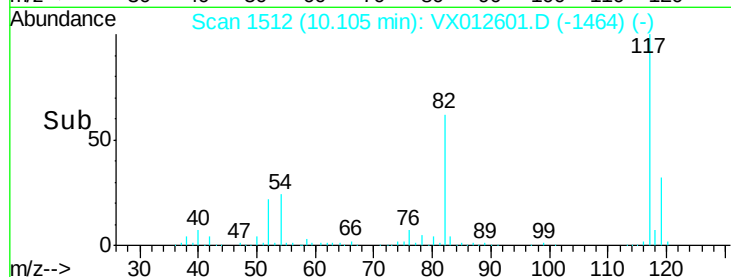
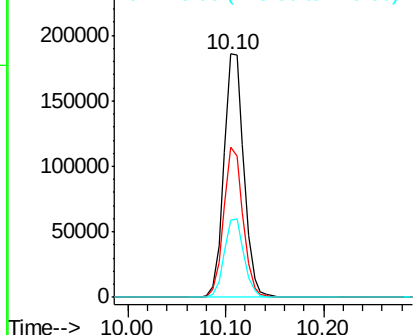
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX012601.D
Acq: 23 Sep 2019 13:37

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion:117 Resp: 263461
Ion Ratio Lower Upper
117 100
82 61.7 45.9 68.9
119 31.8 25.3 37.9

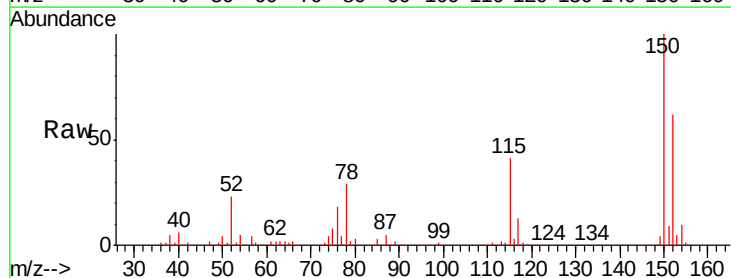


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

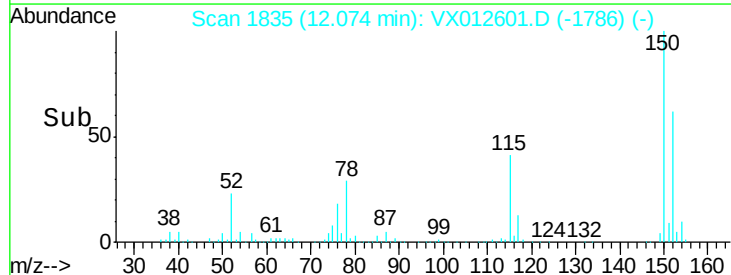
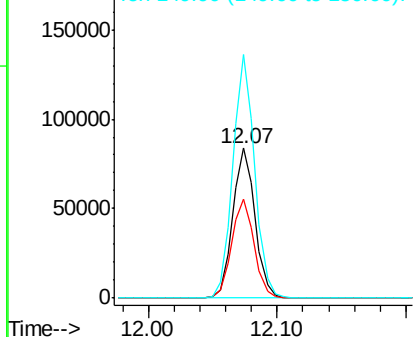


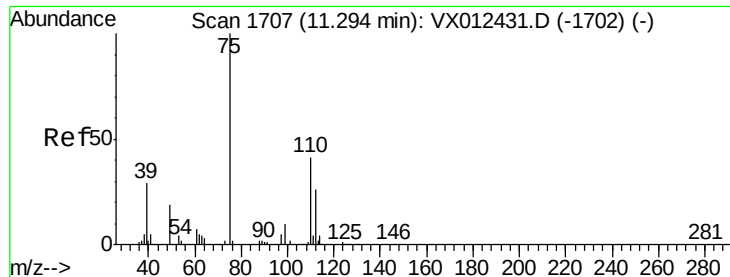
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012601.D
Acq: 23 Sep 2019 13:37

Tgt Ion:152 Resp: 100891
Ion Ratio Lower Upper
152 100
115 66.8 44.1 132.3
150 159.1 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.946 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

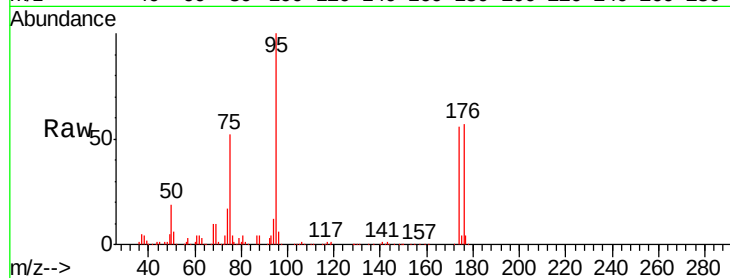
VX0923WBL01

Tgt Ion: 75 Resp: 66575

Ion Ratio Lower Upper

75 100

77 1.2 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

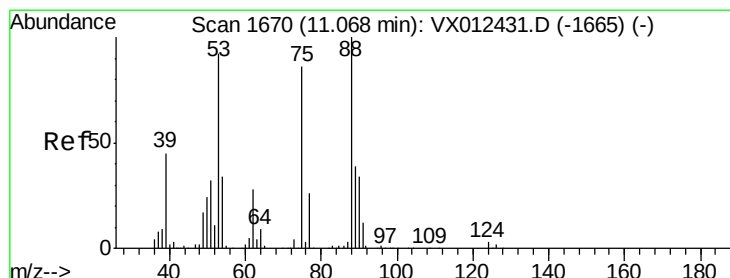
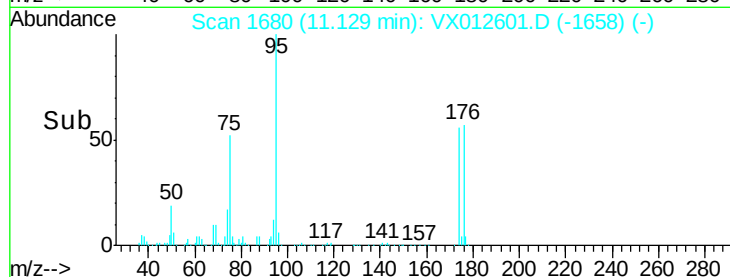
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 71.488 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

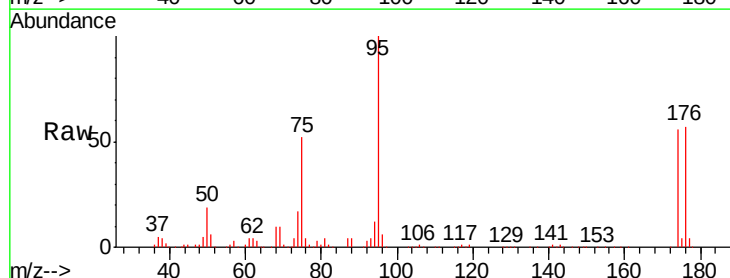
Tgt Ion: 75 Resp: 66575

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

60000

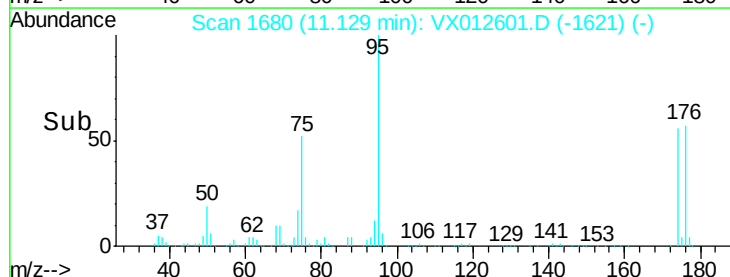
40000

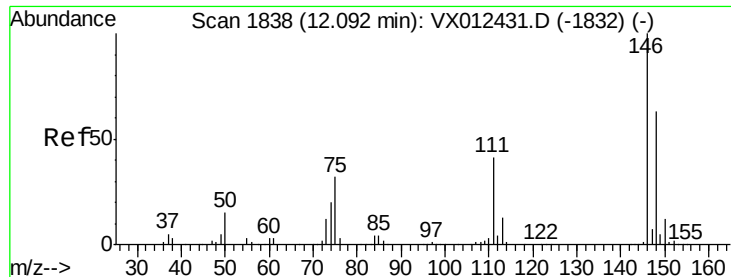
20000

0

Time-->

11.10 11.20

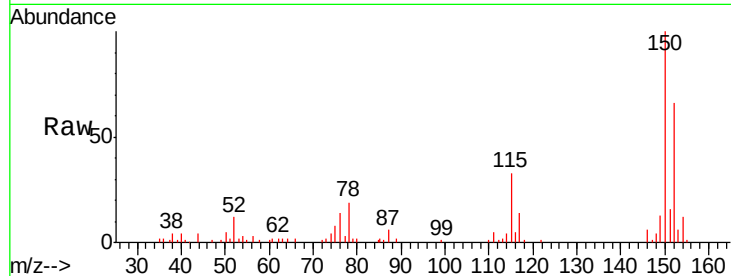




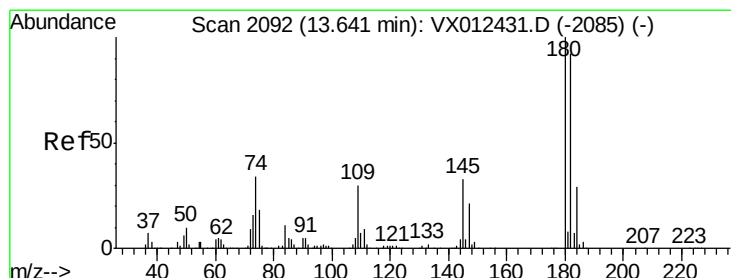
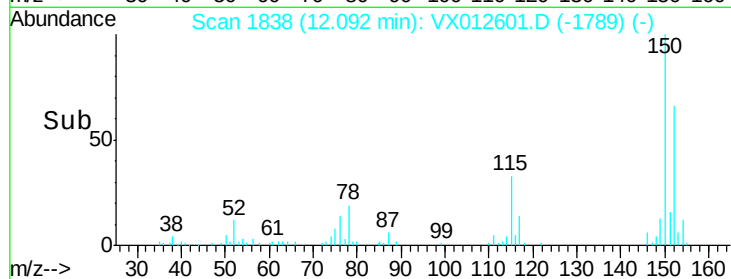
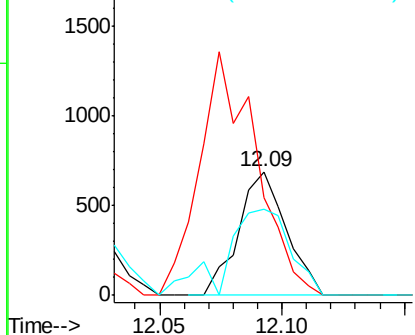
#88
 1,4-Dichlorobenzene
 Concen: 0.275 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0923WBL01

Tgt Ion:146 Resp: 930
 Ion Ratio Lower Upper
 146 100
 111 234.0 21.1 63.3#
 148 94.6 32.1 96.5

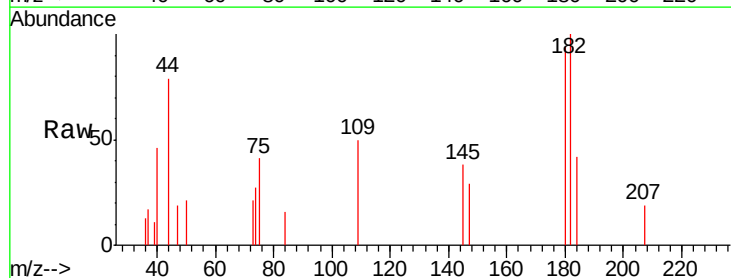


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

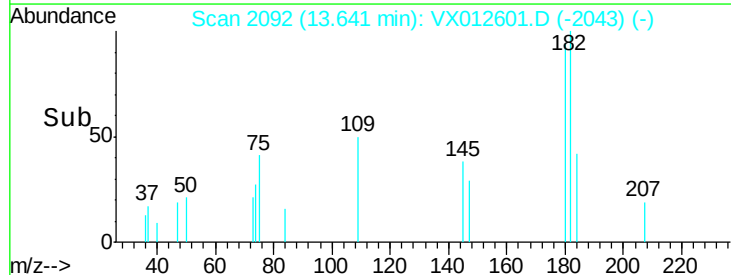
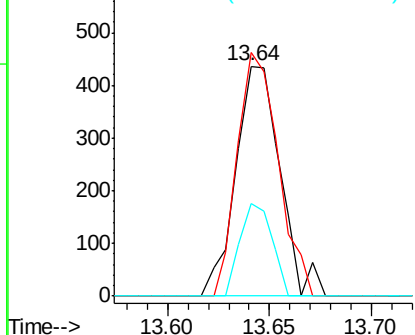


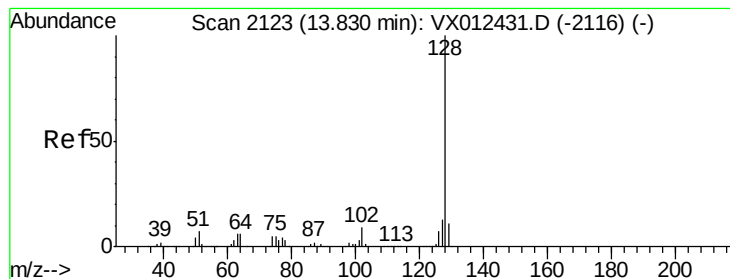
#93
 1,2,4-Trichlorobenzene
 Concen: 0.322 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX012601.D
 Acq: 23 Sep 2019 13:37

Tgt Ion:180 Resp: 659
 Ion Ratio Lower Upper
 180 100
 182 97.9 47.0 141.0
 145 29.1 16.8 50.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.291 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

VX0923WBL01

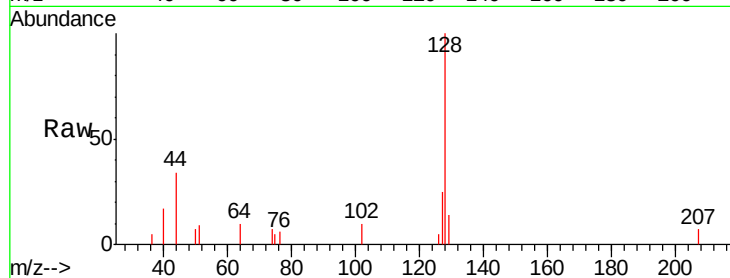
Tgt Ion:128 Resp: 2155

Ion Ratio Lower Upper

128 100

127 14.0 10.2 15.4

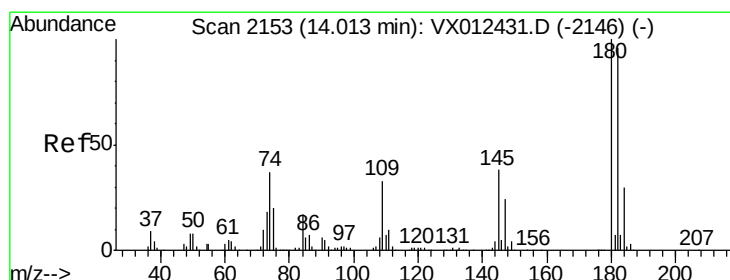
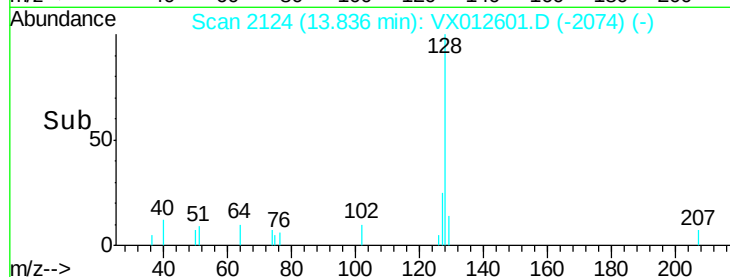
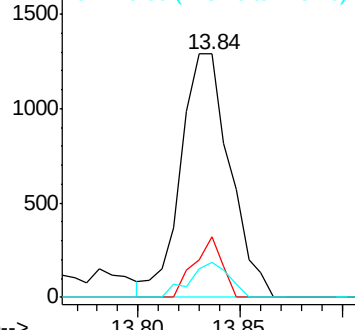
129 11.3 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.293 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX012601.D

Acq: 23 Sep 2019 13:37

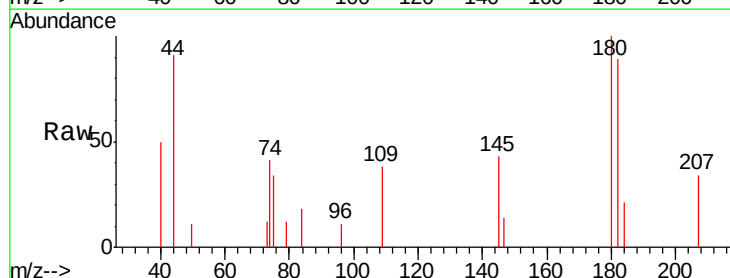
Tgt Ion:180 Resp: 599

Ion Ratio Lower Upper

180 100

182 95.8 47.1 141.3

145 35.7 18.0 54.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

